

IN THE DRAWINGS:

Please cancel the drawings now on file, and please replace them by substituting the revised set of drawings for FIGS. 1 to 11 attached hereto, as "Replacement Sheets."

These revised drawings have deleted any reference to a total of only 10 drawing sheets and have been amended to refer to a total of 11 drawing sheets. These revised drawings have used "Prior Art" to identify each one of FIGS. 3a, 3b, 10a and 10b.

IN THE SPECIFICATION:

Please amend the Substitute Specification as follows:

Please amend the Substitute Specification on Page 1 by revising the first paragraph to read as follows:

--CROSS REFERENCE TO RELATED APPLICATIONS

Applicants claim priority under 35 U.S.C. §119 of the German Application No. 199 00 129.4 filed January 4, 1999. ~~Applicants also claim priority under 35 U.S.C. 365 of PCT/DE00/00067 filed January 4, 2000. The international application under PCT acticle 21(2) was not published in English.--~~

Please amend the Substitute Specification on Page 30 by revising the last two lines to read as follows:

--Figure 3a - a fundamental structure of a ~~photometri~~
and 3b photometric device according to the state of
the art,--

Please amend the Substitute Specification on Page 32 by revising the paragraph in lines 6 to 8 to read as follows:

--In ~~figure 1~~ figure 1 it is described, which distribution can be found in the spectrum for different components contained in natural gas.--

Please amend the Substitute Specification on Page 39 by revising the paragraph in lines 3 to 9 to read as follows:

--The input quantities for the herein used standard-arithmetic procedure GERG88 result thereby out of the direct evaluation of the spectrums and with the starting values for K and Z_n :

~~$$H_{v,n} = \frac{p_n T_b}{p_b T_n} K H_{v,b}$$~~

~~$$p_{v,n} = \frac{p_n T_b}{p_b T_n} K p_{v,b}$$~~

~~$$X_{CO_2} = \frac{k_B T_b}{p_b V_b} K Z_n N_{CO_2}$$~~

$$H_{v,n} = \frac{p_n T_b}{p_b T_n} K H_{v,b}$$

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